	ER VISUAL TECHI	NICAL INSPECTION REPORT
TYPE OF INSPECTION:		
PREREPAIR[] POST	REPAIR/MANUFACTURE [] IN-SERVICE[] PRESERVATION DAMAGE[]
	DENTIFICATION DATA (STAMPED ON HUB/PALM)
SERIAL NO.	SHIP CLASS	STOCK NO.
DRAWING NO.		
order in a second		DRAWING REVISION: HUB/PALM DWG
MONOBLOC	[] CPP[]	RH[] LH[]
-	PORT[] STBD[] INBD	[] OUTBD[] CENTER[]
NO. OF BLADES		MATERIAL .
	INSPE	CTION
INSPECTING ACTIVITY		LOCATION OF INSPECTION (ACTIVITY)
PROPELLER IS INSTALLED? YE	ES[] NO[]	SHIP (INCLUDE HULL NUMBER - IF APPLICABLE)
PT AIDED VISUAL INSPECTION	? YES[] NO[]	UNDERWATER VISUAL INSPECTION? YES[] NO[]
PRINTED NAME AND TITLE OF	QUALIFIED INSPECTOR	TELEPHONE NUMBER
SIGNATURE		DATE OF INSPECTION
REVIEWED BY (SEE NOTE 6)		DATE
	INSTRU	ICTIONS
 Answer all questions. U If an answer indicates the street of the street of	Use additional comments to the possibility of an unsatistication of all defease and location of all defease as old or new, if possible in in contractor facility.	ropriate column YES, NO, or NA (not applicable). clock if more space is needed. cfactory propeller, explain in the REMARKS column. fects and damage on the appropriate sketch. dependent reviewer in government facility.
DISTRIBUTION: One copy to NSWCCD-SS Other:	ES 9323, NAVICP 05824	, Contracting Officer, & File
		PAGE 1 OF

NAVSEA 9245/3 (8/02)

1 1 SM 49 kills all

(FORM 1 OF 26)

ITEM	YES	NO	NA	REMARKS
1. Preservation and Storage				
a. Is the propeller stored in open covered				
storage or better?				
b. Is the propeller stored on blocks or skids?				
c. Is this inspection being accomplished due	1			
to an unsatisfactory visual preservation				
inspection? (If yes, attach a copy.)				
 Has any preservation damage been 				
repaired or tagged for future reference?				
2. Propeller Accessories				
 a. Are the following accessories installed or 				
accompanying this propeller?				
Gland ring				
2. Eyebolts				
Eyebolt hole plugs				
4. Fill and vent hole plugs				
5. Gland/Cap studs and nuts		_		***
b. Are installed eyebolt hole and fill and vent				
hole plugs flush with the adjacent surface?				
3. PRAIRIE Air System				
a. Are all the air-emitting holes open?		**********	*******	
b. Are the air channel cover plate welds free				
of cracks?				
c. Are the PRAIRIE air inlet holes free of				
damage or deficiencies?				
d. Do the PRAIRIE air inlet hole seal surfaces				
have a surface finish of 32 Ra or better?				
4. Blade Edges				
a. Does the latest revision of the propeller				
drawing specify a:				
Knuckle [] Fairing Radius []				
b. Does the propeller have a:				
Knuckle [] Fairing Radius []				
Is the break of the knuckle sharp on all				
blades?				
2. Is the break of the knuckle free of				
defects?				
PROPELLER SERIAL NO.:				PAGE 2 OF

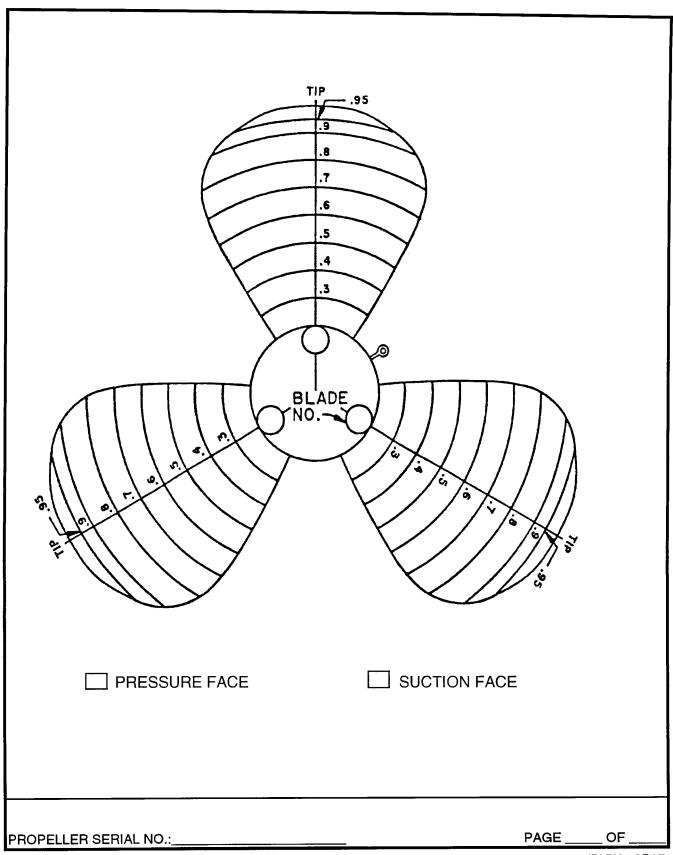
ITEM	YES	NO	NA	REMARKS
c. Does the latest revision of the propeller				
drawing specify a trailing edge radius of				
1/64"?				
 Do the trailing edges have an edge 				
radius of approximately 1/64"?				
2. Is the trailing edge radius free of				
defects?	i			
d. Are the blade edges (first and last 10% of				
width) free of porosity? (Identify location of				
porosity as being in welded or unwelded				
areas.)				
e. For Class 1 propellers, are the blade				
edges free of porosity, which exceeds 0.010				
inches in a one inch band from the fillet to the				
0.975R, LE and TE?				
f. Are the blade edges (first and last 10% of				
width) free of damage and deficiencies (e.g.,				
nicks, dents, bends, cable marks, flat spots,				
ridges, punch marks, gouges, etc.)?				
g. Are the blade edges (first and last 10% of				
width) free of cracks? (Identify location of				
cracks as being in welded or unwelded				
areas.)				
h. Are the leading and trailing edge outlines				
fair (not wavy)?				
i. Are the blade trailing edges free of curling?				
j. Are the blade edges free of punch marks				
within the first and last 10% of the blade				
width?				
5. Blade Tips				
 a. Does the latest revision of the propeller 				
drawing specify a:				
Knuckle[] Fairing Radius[]				
b. Does the propeller have a:				
Knuckle [] Fairing Radius []				
1. Is the break of the knuckle sharp on all				
blades?				
2. Is the break of the knuckle free of				
defects?				
PROPELLER SERIAL NO.:				PAGE 3 OF
NAVSEA 9245/3 (1/02)				(FORM 3 OF 25

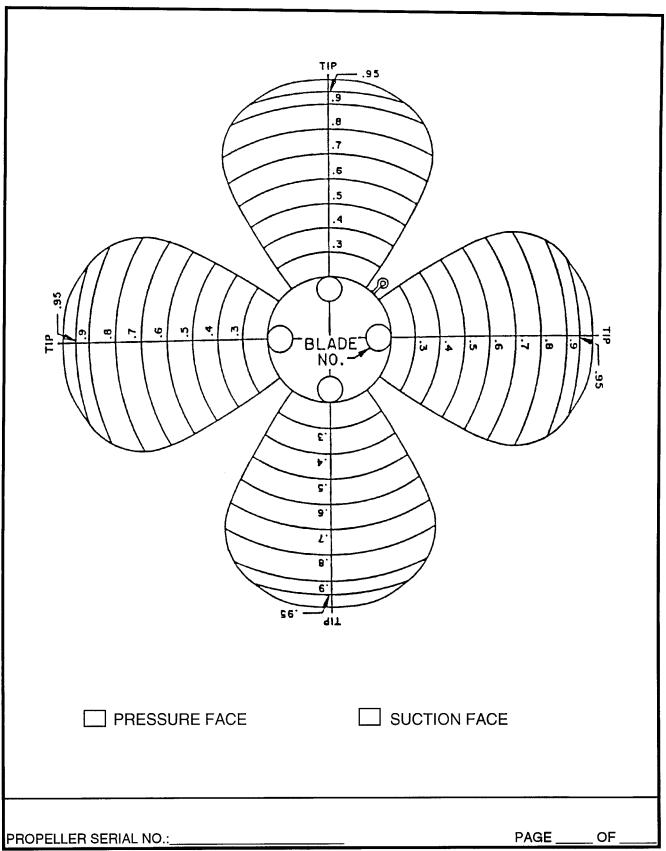
ITEM	VEC	NO	NIA	DEMARKS
	ILEO	NO	NA	REMARKS
c. Does the latest revision of the propeller				
drawing specify that the tips have an edge				
radius of 1/64"?	ļ			
Do the tips have an edge radius of approximately 1/64/3.				
approximately 1/64"?				
2. Is the tip edge radius free of defects?				
d. Are the tip regions free of porosity?				
(Identify location of porosity as being in				
welded or unwelded areas.)				
e. For Class 1 propellers, are the tip regions				
free of porosity, which exceeds 0.010 inches				
in a 1-1/2 inch band from the LE 0.975R to the				
TE 0.975R? f. Are the tip regions free of damage and				
deficiencies (e.g., nicks, dents, bends, cable				
marks, flat spots, ridges, punch marks,				
gouges, etc.)?				
g. Are the tip outlines fair (not wavy)?				
h. Are the blade tip regions free of cracks?		·		
(Identify location of cracks as being in welded				
or unwelded areas.)				
i. Does the propeller have bolt on blade tips?				. 200
1. Is the tip cover plate flush with the tip			-	
surface?				
2. Are the cover plate screws present and				
flush with the cover plate?				
3. Is there a visible gap between the tip				
and the blade casting?	İ			
4. Is the transition between the tip and				
blade casting smooth and fair (e.g.; no tip	l		•	
displacement)?	İ		İ	
6. Blade Surfaces				
a. Are the blade surfaces free of porosity?				
(Identify location of porosity as being in				
welded or unwelded areas.)				
b. Are the blade surfaces free of damage and				
deficiencies (e.g., dents, gouges, cable				
marks, etc.)?				
c. Are the blade surfaces free of cavitation				
erosion?				44.5
				D405 405
PROPELLER SERIAL NO.:				PAGE 4 OF

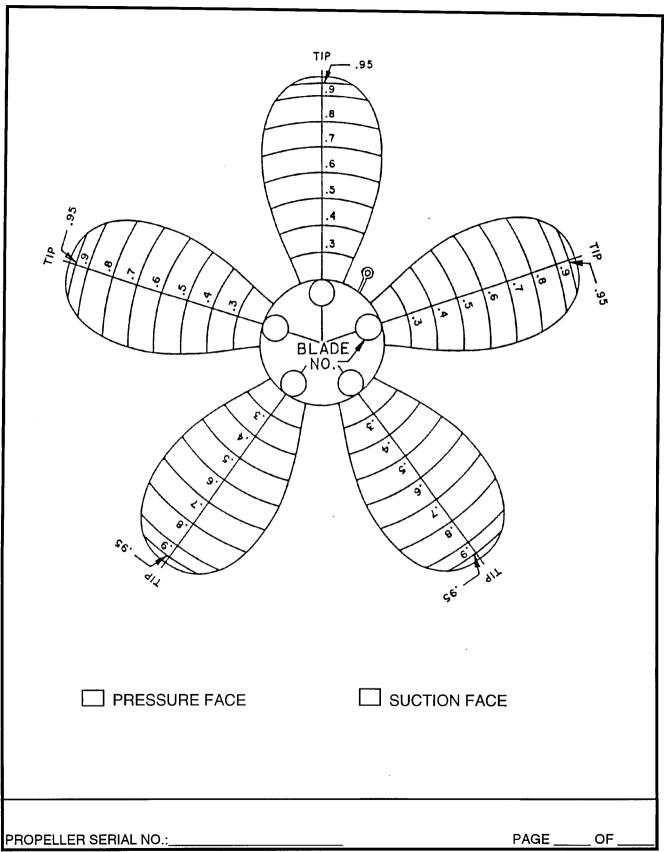
ΙT	EM	YES	NO	NA	REMARKS
	d. Are the blade surfaces fair (not wavy)?				
	e. Are the blade surfaces free of cracks?				
	(Identify location of cracks as being in welded				
	or unwelded areas.)				
	f. Are the blade surfaces free of punch marks				
	and scribe lines, which exceed 0.030 inches				
	in width or depth?				
7.	Fillet Areas				
	a. Are the fillet areas free of porosity?				
	(Identify location of porosity as being in				
	welded or unwelded areas.)				
	b. Are the fillet areas free of damage and				
	deficiencies (e.g., dents, gouges, ridges,				
L	cable marks, etc.)?				
	c. Are the fillet areas free of cavitation				
	erosion?				
	d. Are the fillets fair (not wavy)?				
	e. Are the fillet areas free of cracks? (Identify				
	location of cracks as being in welded or				
	unwelded areas.)				
8.	Hub				
8.	Hub a. Is the hub free of porosity? (Identify				-
8.					***
8.	a. Is the hub free of porosity? (Identify				
8.	a. Is the hub free of porosity? (Identify location of porosity as being in welded or				
8.	a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.)				
8.	 a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.) b. Is the hub exterior surface free of damage and deficiencies, (e.g., dents, gouges, cable marks, etc.) 				
8.	 a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.) b. Is the hub exterior surface free of damage and deficiencies, (e.g., dents, gouges, cable 				
8.	 a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.) b. Is the hub exterior surface free of damage and deficiencies, (e.g., dents, gouges, cable marks, etc.) 				
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8.	 a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.) b. Is the hub exterior surface free of damage and deficiencies, (e.g., dents, gouges, cable marks, etc.) c. Is the hub exterior free of cavitation erosion? d. Is the hub exterior fair (not wavy)? 				
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8.	 a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.) b. Is the hub exterior surface free of damage and deficiencies, (e.g., dents, gouges, cable marks, etc.) c. Is the hub exterior free of cavitation erosion? d. Is the hub exterior fair (not wavy)? e. Is the hub exterior free of cracks? (Identify location of cracks as being in welded or unwelded areas.) f. Is the gland seal area at forward end of the hub bore free of damage, deficiencies (e.g., gouges, scoring, etc.) and porosity greater 				
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	 a. Is the hub free of porosity? (Identify location of porosity as being in welded or unwelded areas.) b. Is the hub exterior surface free of damage and deficiencies, (e.g., dents, gouges, cable marks, etc.) c. Is the hub exterior free of cavitation erosion? d. Is the hub exterior fair (not wavy)? e. Is the hub exterior free of cracks? (Identify location of cracks as being in welded or unwelded areas.) f. Is the gland seal area at forward end of the hub bore free of damage, deficiencies (e.g., gouges, scoring, etc.) and porosity greater than 0.030 inches? g. Is the O-ring sealing surface on the hub aft face free of damage, deficiencies, and 				PAGE 5 OF

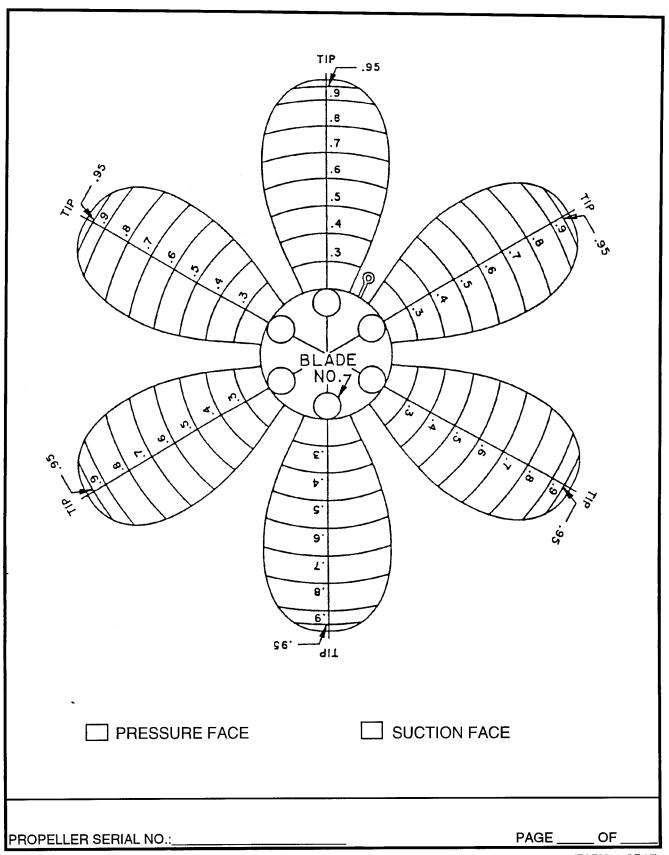
ITEM	YES	NO	NA	REMARKS
h. Are the keyway(s) free of damage and				
deficiencies (e.g., nicks, dents, etc.)?				
 Is the hub interior surface free of damage 				
and deficiencies (e.g., dents, gouges, cable				
marks, raised metal)?				
j. Is the hub interior free of cracks? (Identify				
location of cracks as being in welded or				
unwelded areas.)				
k. Are the fill and vent passages clear of				
obstructions?				
9. Controllable Pitch Propeller Palm				
a. Are the palm top faces free of damage or				
deficiencies (e.g., gouges, dings, dents, etc.)?				
b. Are the palm bolt holes free of damage or				
deficiencies (e.g., gouges, dings, dents, etc.)?				
c. Are the palm bottoms free of damage or				
deficiencies (e.g., gouges, dings, dents, etc.)?				
d. Are the palm dowel pin holes free of				
damage or deficiencies (e.g., gouges, scoring,				
dings, dents, etc.)?				
e. Are the palms free of cracks? (Identify				
location of cracks as being in welded or				
unwelded areas.)				
f. Are the palms free of porosity? (Identify			İ	
location of porosity as being in welded or				
unwelded areas.)				
g. Are the palm O-ring sealing surfaces free				
of damage, deficiencies, and porosity greater				
than 0.030 inches?				
10. Is the propeller free of marine growth?				
11. Surface Finish				
a. Is the hub O.D. surface 125 Ra or better?				
b. Are the blade surfaces 63 Ra or better?				OF ANYTHER PAY SALES S
(for Class I & II propellers)				
c. Are the blade surfaces 125 Ra or better?				
(for Class III & IV propellers)				
d. Are the O-ring sealing surfaces 32 Ra or				
better?				
PROPELLER SERIAL NO.:				PAGE 6 OF

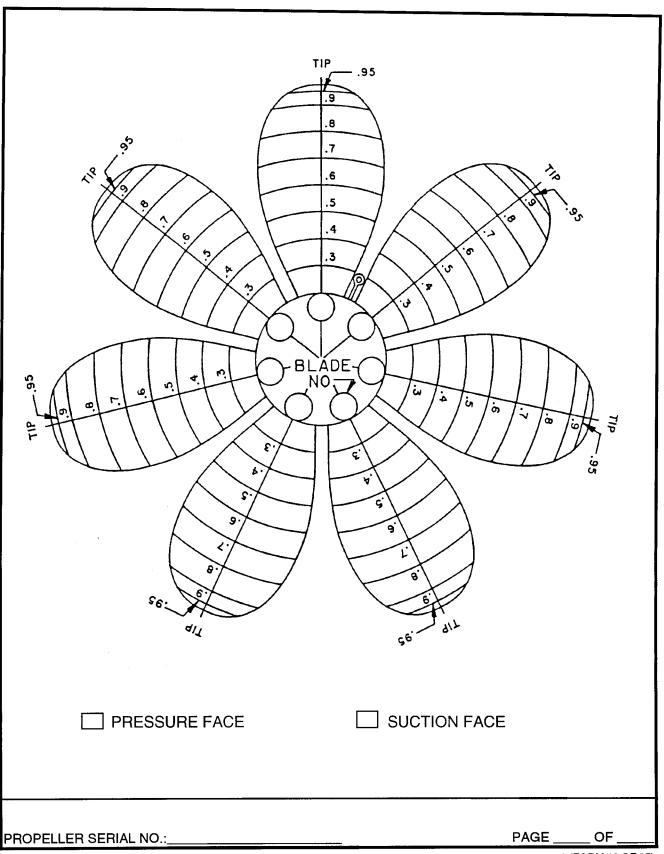
ITEM				
	YES	NO	NA	REMARKS
12. Are the approximate size and location of				
all defects and damage shown on the				
attached sketches?]			
13. For new manufacture or new weld repair				
areas, does the propeller meet MIL-STD-2035				
acceptance criteria?				
14. Does the condition of this propeller		-		
indicate that it will provide satisfactory				
service?				
15. Provide a brief description of the repairs c	onsid	lerer	l nec	essary to restore this
propeller to a serviceable condition.	011010		11100	cosary to restore this
properer to a serviceable condition.				
40 11 1 /0 1 01 10 10 10				
16. Hub/Palm Stamped Data (Exactly as stamp	ed.)			
17. Additional Comments. (Use additional shee	ts, if	nece	ssary	·)
DDODELLED OFFICE NO				DAGE 7.05
PROPELLER SERIAL NO.:				PAGE 7 OF

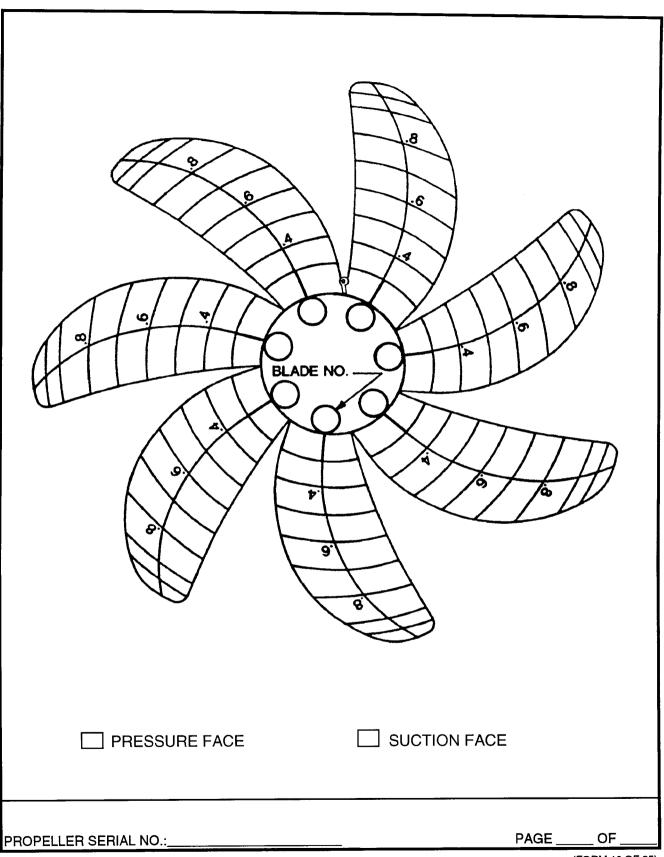


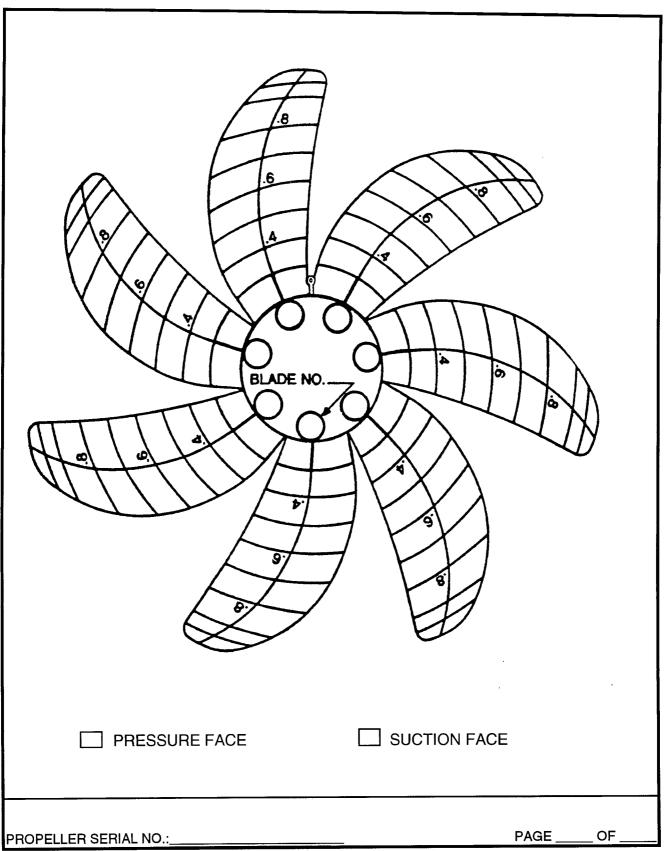




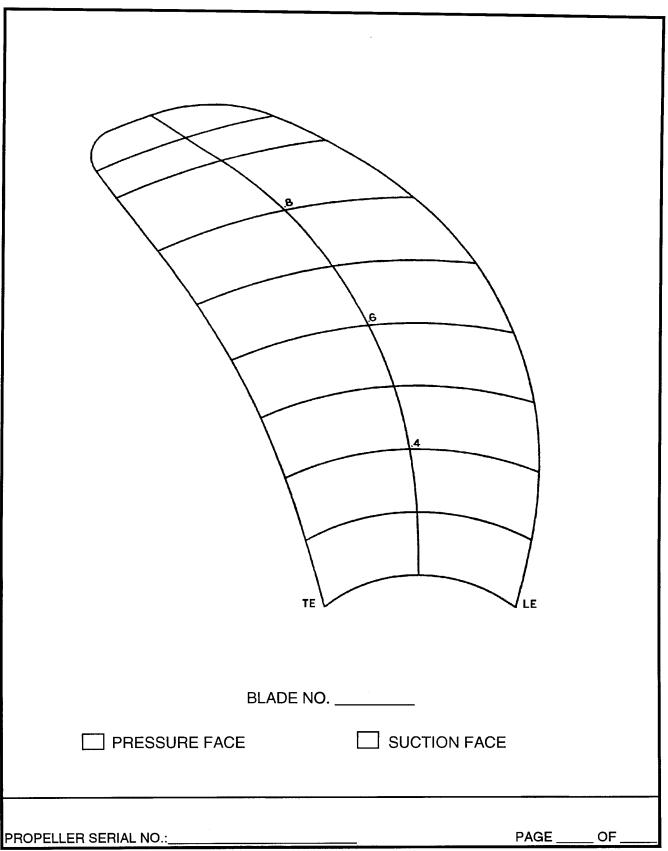








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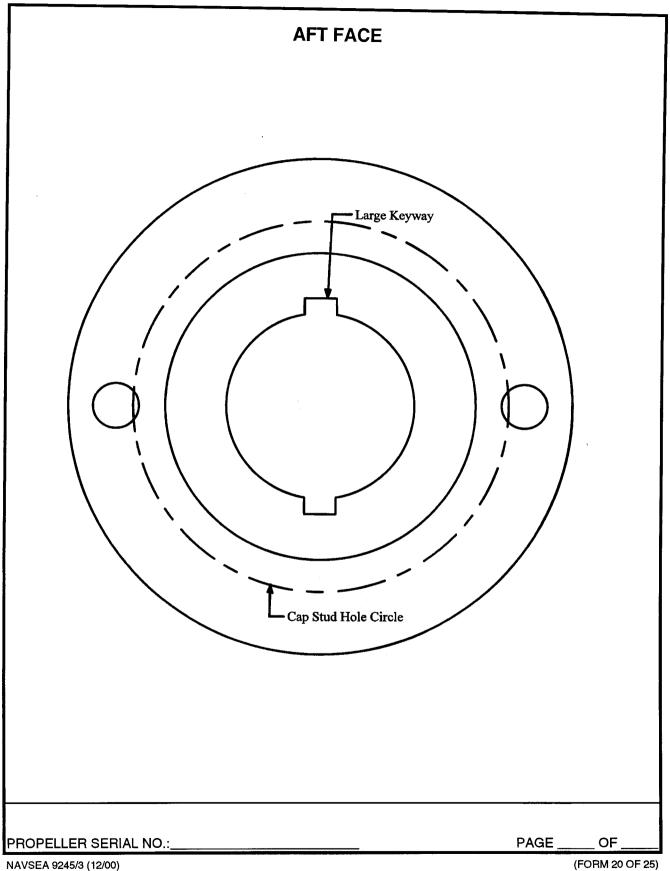


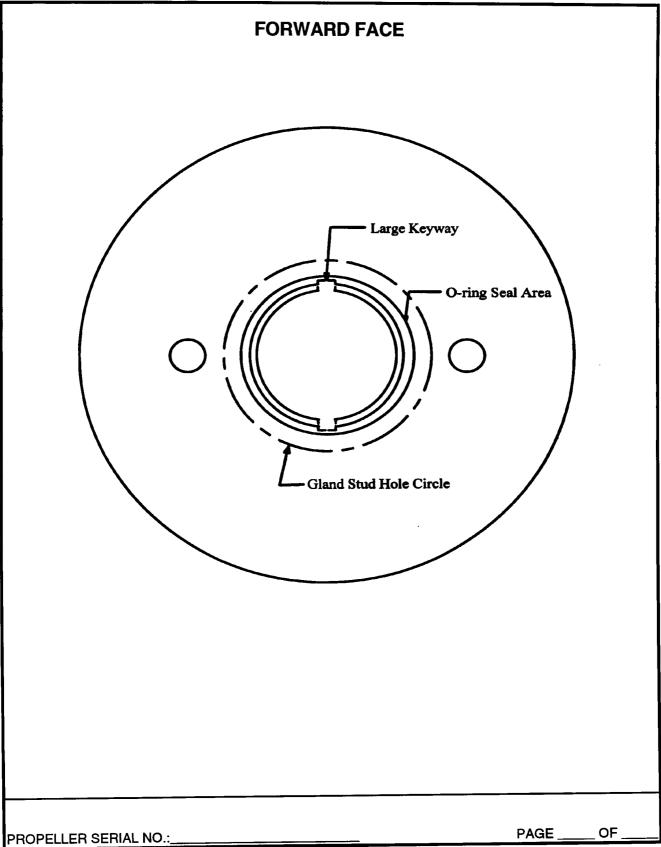
NAVSEA 9245/3 (12/00) (FORM 16 OF 25)

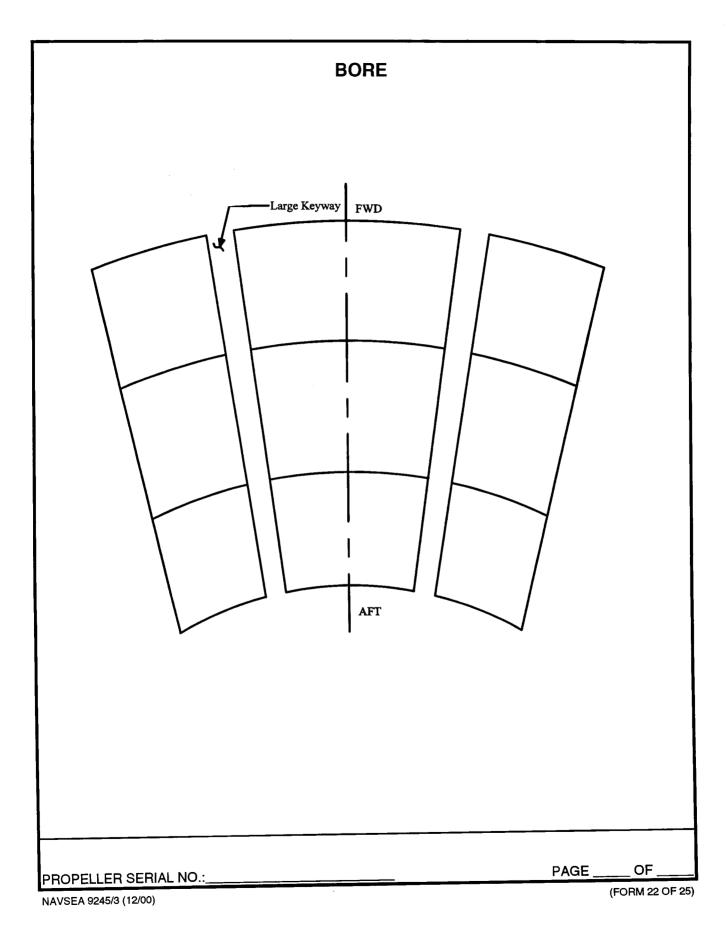
LE LE	J _E
BLADE N	IO
PROPELLER SERIAL NO.:	PAGE OF

	.6
BLADE NO HEAT NO LEFT HAND RIGHT HAND SUCTION FACE PRESSURE FACE	
PROPELLER SERIAL NO.:	PAGE OF

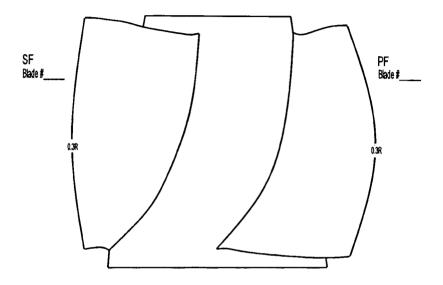
.4	BLADE NO HEAT NO LEFT HAND RIGHT HAND
	RIGHT HAND SUCTION FACE PRESSURE FACE
PROPELLER SERIAL NO.:	PAGE OF

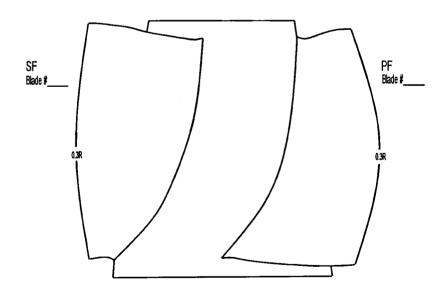






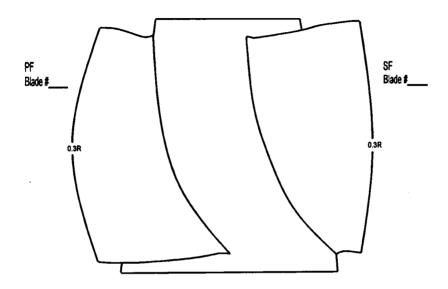
FILLET AREA & HUB O.D. RH PROPELLER

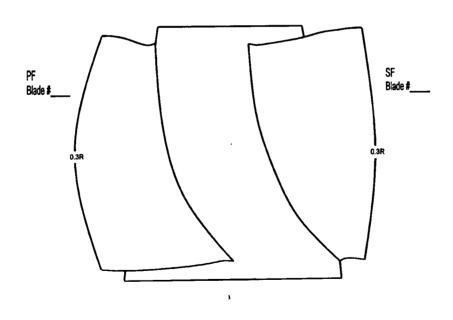




PROPELLER SERIAL NO.:______ PAGE ____ OF

FILLET AREA & HUB O.D. LH PROPELLER





PROPELLER SERIAL NO.:______ PAGE ____ OF ___

NAVSEA 9245/3 (12/00)

(FORM 24 OF 25)

	MAF	
	TE	
Blade #	LE	Blade #
	TE	
Blade #	LE	Blade #
	TE	
Blade #	LE	Blade #
	TE	
Blade #	LE	Blade #
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SERIAL NO.:		PAGE

